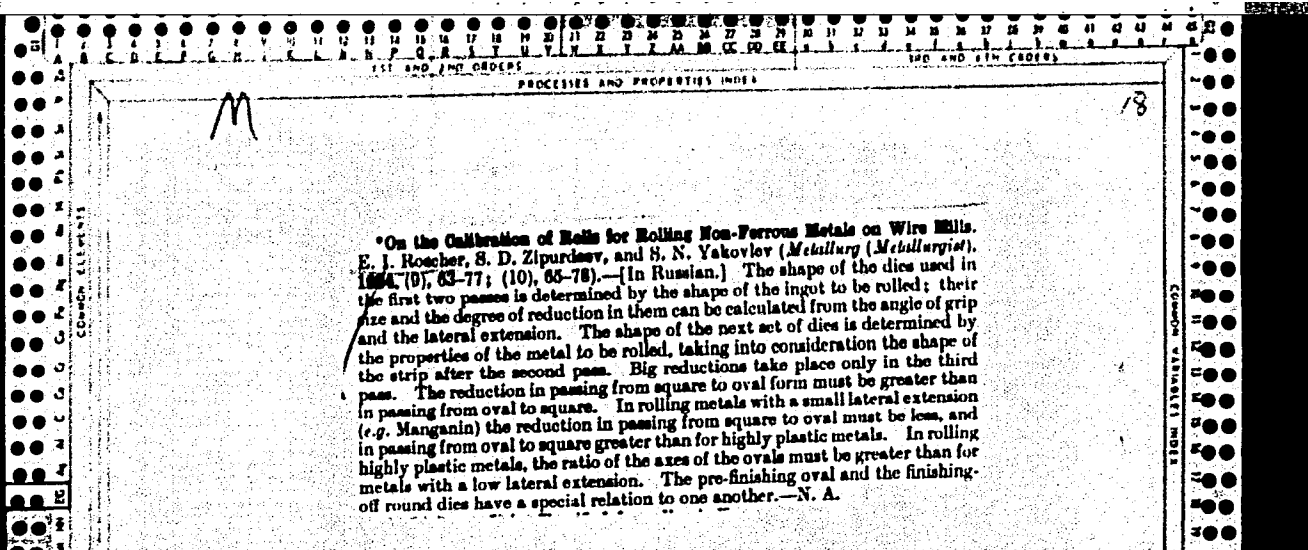




BRET, J.; ROSCH, J.

Arteriography of the liver. Cesk. radiol. 19 no.4/5:295-299
Ag '65.

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CSSR.

HERFORT, Karel; DULIK, Frantisek, ROSCH, Josef

Splenoportography in the diagnosis of pancreatic diseases. Cas.lek.
cesk. 99 no.9:269-276 26 F '60.

1. Interni oddeleni polikliniky KU v Praze a rentgenove oddeleni
Ustredni vojenske nemocnice v Praze.
(ANGIOGRAPHY)
(PANCREAS)

HERFORT, Karel; ROSCH, Josef

Contribution of splenoportography to the diagnosis of inflammatory diseases of the pancreas. Cas.lek.cesk 100 no.37:1163-1167 15.6.'61.

1. Gastroenterologicke vyzkumne pracoviste pri internim oddeleni polikliniky fakulty vseobecneho lekarstvi KU v Praze a rentgenove oddeleni Ustredni vojenske nemocnice v Praze.

(PANCREATITIS radiog) (ANGIOGRAPHY)

ROGCHIN, G. I.

Orthopedics

Dissertation: "Methodds and Devices for the Investigation of the Mechanics of Walking and Shock-Absorbing Properties of Shin Stump Joint Gonnections of a Prosthesis." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni B"umaj, 5 Apr 54. (Vechernyaya Moskva, Moscow, 26 Mar 54).

SO: SUM 213, 20 Sep 1954

ROSCHIN, I. L.

Fruit Culture

Fight for an annual harvest., Sad i og., no. 1, 1952.

- (ROSHCHIN, I.V., dotsent

Results of a session of the Erisman Institute of Public Health
Research of the R.S.F.S.R. Ministry of Health. Gig.1 san. 25,
no.11:99-101 N '60. (MIRA 14:11)
(MOSCOW---PUBLIC HEALTH RESEARCH)

MASHKOVSKIY, M.D.; ROSHCINA, L.F.

Effect of oxylidine on the bioelectric activity of the brain.
Zhur. nevr. i p'skh. 63 no.10:1532-1540 '63. (MIRA 17:5)

1. Laboratoriya farmakologii (zav. -- prof. M.D. Mashkovskiy)
Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo
instituta imeni S. Ordzhonikidze, Moskva.

ROSCHTSCHIN, I.V. (Moskau V-49, Mutnaja 3/21, kv. 5, Ud. S.S.R.)

Vanadium as an industrial poison. J. Hyg. Epidem., Praha 2 no.4:492-501 1958.

1. Lehrstuhl für Gewerbehygiene des mit dem Leninorden ausgezeichneten
I. Moskauer medizinischen Setschenow-Instituts, Moskau.
(VANADIUM, pois.)
in indust.)

ROSHCHINA, R.N.

PROCEDURES AND PROPERTIES INDEX

7

Determination of tin in tin concentrates by internal electrolysis. Yu. A. Chernikhov and R. N. Roshchina. *Zavodskaya Lab.* 14, 383-6(1948).—Treat 0.1-0.2 g. sample with 10 ml. of concd. HCl and 3 ml. of concd. HNO₃. Evap. nearly to dryness, add 5 ml. concd. HCl, heat, dil. with water to 100 ml., and again heat to boiling. Filter and wash the residue several times by decantation with hot water contg. a little HCl. Treat the residue 3 times with 5-ml. portions of NH₄OH, adding hot water each time. Wash the residue several times with hot water, dry, and calcine slightly. Heat the residue in a Nierucible with 10 times as much Na₂O₂. Leach the cold melt with dil. HCl, boil to destroy Na₂O₂ completely and to expel Cl, cool, add 40% NaOH until a turbidity forms, and then dissolve it in a few drops of HCl. Add 1 g. NH₄OH.HCl, dil. with water to 200 ml., add 2 ml. of 4 N HCl and, while stirring the soln. with air or CO₂, subject it to inner electrolysis for 3 hrs. in an app. having a Zn anode protected

with a coating of collodion (C.A. 43, 8285d). The presence in the electrolyte of up to 20 mg. of Fe⁺⁺⁺ does not interfere but it should be reduced with NH₄OH prior to electrolysis since its electrolytic reduction precedes the sepn. of Sn on the cathode if much Fe⁺⁺⁺ is present. W. is partially co-pptd. during inner electrolysis but the amt. deposited drops as the amt. of oxalic acid increases; in the

State Sci. Rs. Inst.
Rare & Fine Metals,

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445330004-7

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445330004-7"

1055/226491, Jan
Distr: 4F1/484f

✓ AN APPROXIMATE SOLUTION OF LAMINAR
BOUNDARY LAYER EQUATIONS BY MEANS OF
POLYNOMIALS. Jan Rościągowski. Arch. Mech.
Stosowanej, No. 4, 1957, pp. 381-393. Investigation
of a steady plane laminar incompressible flow
in a boundary layer for a body with small curva-
ture, governed by Prandtl equations. The separa-
tion point is calculated and results are compared
with experimental data. The method used can be gen-
eralized, assuming polynomials of higher degree
and taking additional boundary conditions from
Prandtl's equations or experiments. It can also be
extended to include the boundary layer in an axi-
symmetric flow if the Kármán momentum inte-
gral is replaced by an integral condition for the
boundary layer of a body of revolution.

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ROSCIN, N.

The first shot; a short story. p. 14.
(LUDOVY ROZHLAS., Vol. 9, no. 8, Feb. 1953, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2 #8, Library of Congress,
August 1953, Uncl.

POTAK, I. M. [Potak, Ya. M.]; ORJEHOVSKI, I. F. [Orzhekhovskiy, Yu. F.];
PEVZNER, L. M.; ROSCINA, I. N. [Roshchina, I. N.]; ERMAKOV, V. N.
[Yermakov, V. N.]

Thermomechanical treatment of steel for the obtainment of a high
mechanical resistance. *Analele metalurgie* 15 no. 4: 114-123 O-D '61.

(Steel—Heat treatment)

ROSCISZEWSKA, Danuta; GRUDZINSKA, Barbara

Clinico-electroencephalographic correlations in temporal lobe epilepsy. Neurol. neurochir. psychiat. Pol. 15 no.3:415-418 My-Je '65.

1. Z Kliniki Neurologicznej Slaskiej AM (Kierownik: prof. dr. med. W. Chlopicki).

ROSCISZEWSKI, A.

4

2042

620.178.154.56

Staub K., Rościszewski A. Measurements of Microhardness;

„Pomiary mikrotworzywistości” (Prace Inst. Mechan. No. 7), Warszawa, 1953. PWT, 15 pp., 10 figs., 6 tabs

Microhardness tests deviate from Kik's law of resemblance. This is caused by discontinuity in space lattice structure by forces resulting from crystal structure and surface tension, by reversible elastic deformation by methods of surface preparation and by other factors. Meyer's law (of power) applies to microhardness measurements providing that coefficients „a” and „n” are not similar to those applied in macrohardness measurements. Principles of a correct microhardness measurement and discussion of principles of a correct arrangement. Description of construction of Girschig's microhardness tester. Comparison of advantages and disadvantages as between Girschig's and Bergmann's testers reveals the superiority of the former. Results of microhardness measurements of ferrite, perlite, martensite, cementite and other steel and cast iron structures. Errors in pyramid un-

KOSCISZEWSKI, JAN

POLAND/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 3219

Author : Rosciszewski Jan

Inst : Not Given

Title : Problem of the Flow of Liquid in Branching Pipes with Allowance for Heat Exchange

Orig Pub : Arch. budowy maszyn, 1956, 3, No 4, 333-363

Abstract : No abstract

ROMANIA

ANCUSA, M., MD; ROSCOVANU, A.; TELEGUT, M.; GAITA, I.

Section of Communal Hygiene of the Institute of Hygiene of
the R.P.R., Timisoara Branch (Sectia de igiena comunala a
Institutului de igiena R.P.R., Filiala Timisoara) - (for all)

Bucharest, Igiena, Vol XII, No 1, Jan-Feb 63, pp 71-78.

"Changes due to Phenol in the Taste and Smell of Drinking water
from a Central Supply Station of Drinking Water."

ROSCULET, Marcel N.

Integral operators which generalize differential equations.

Pt. 5. Studii cerc mat 16 no.*7:885-907 '64.

ROSCULET, Marcel N.

Contributions to the study of partial derivative equations of
the parabolic type. Pt. 6. Studii cerc mat 15 no. 1:97-136
'64.

BOULET, Marcel N.

Research on trigonometric series. Studii cerc mat 16 no.9:1165-1177
'64.

ROSCULET, Marcel N.

Integral operators generalizing differential equations. Pt. 2.
Studii cerc mat 14 no.1:23-48 '63.

ROSCULET, M.

Infinite algebra, commutative, associated with systems of equations with
partial derivatives. p. 321
(STUDII SI CERCETARI MATEMATICE. Rumania. Vol. 7, no. 3/4, July/Dec. 1956)

ROSCULET, Marcel N.

The Pompeii functions. Comunicarile AR 12 no.5:499-501 My
'62.

1. Comunicare prezentata de academician M. Nicolescu, membru
al Comitetului de redactie, "Comunicarile Academiei Republicii
Populare Romine."

ROSCULET, Marcel N., conf. univ. (Bucuresti)

A criterion of convergence for a series of real numbers.
Gaz mat fiz 15 no.5:259-241 My '63.

ROSCULET, Marcel N.

Monogene functions in Riemann spaces. Pt 1. Studii cerc mat 14 no.4:
519-531 '63.

L 13247-63

EWI(d)/FCC(w)/BDS AFFTC IJP(C)
S/044/63/000/003/024/047

(R)

51

AUTHOR: Rosculeț, Marcel N.

TITLE: Iterated linear equations with partial derivatives of arbitrary order

PERIODICAL: Referativnyy Zhurnal, Matematika, No. 3, 1963, 53, Abstract 3B241
(Rev. Math. Pures et Appl. (RPR), v. 5, no 3-4, 1960, 655-680)

TEXT: This article is devoted to finding the solution of an equation iterated p times

$$E^p U = E E^{p-1} U = 0 \quad (E^0 U = EU) \quad (1)$$

L 13247-63

S/044/63/000/003/024/047

Iterated Linear equations...

$$E \left(\frac{\partial}{\partial x_0}, \frac{\partial}{\partial x} \right) U = \sum_{\substack{k_0+k_1+\dots+k_s < k \\ k_s < n}} C_{k_0, k_1, \dots, k_s} \frac{\partial^k U}{\partial x_0^{k_0} \partial x_1^{k_1} \dots \partial x_s^{k_s}} = 0 \quad (2)$$

with constant coefficients. It turns out that

$$\dots \left(\frac{\partial}{\partial x} \right)^k U = 0 \quad (3)$$

L 13247-63

S/044/63/000/003/024/047

Iterated linear equations...

where $\frac{\partial}{\partial x_0} E = \frac{\partial E(\lambda, \frac{\partial}{\partial x})}{\partial \lambda} \Big|_{\lambda = \frac{\partial}{\partial x_0}}$

the following statement is derived from identity (3): If the function $U(x_0, x_1, \dots, x)$ is a solution of the equation

$E^p U = 0$, then $x_0 U$ is a solution of the equation $E^{p+1} U = 0$.
It follows from this statement that the function

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Iterated linear equations ...

statement also applies to other variables x_k . Then we obtain the following representation for a solution of equation (1):

$$U = \sum_{i=0}^{\infty} \sum_{k=0}^{\infty} E_i U_k^{(i)} \quad (5)$$

where $EU_k^{(1)} = 0$.

For uniqueness of the expansion (4) it is sufficient that the operator E should

ROSCULET, Marcel N.

Continuous functions without derivative. Studii cerc mat 13
no.4:527-537 '62.

ROSCULET, Marcel N.

Integral operators generalizing differential equations.
Pt. 2. Rev math pures 8 no. 2:251-262 '63.

ROSCULET, Marcel N.

Formulas of the mean for the analytic solutions of some equations with partial derivatives of the parabolic type. Comunicarile AR 11 no.8: 909-914 '61.

1. Comunicare prezentata de academician Miron Nicolescu.

ROSCUET, Marcel-N.

Studies on the equations with partial derivatives of the parabolic type. Pt. 4. Studii cerc mat 13 m.3: 419-438 '62.

ROSCULET, MARCEL N.

Rosculiet, Marcel N. Algèbres d'ordre n^p , non commutatives. Acad. R. P. Roum. Bul. Şti. Sect. Şti. Mat. Fiz. 8 (1956), 501-508. (Romanian, Russian and French summaries)

L'auteur considère les algèbres d'ordre n^3 , aux éléments de base $\theta_1^a \theta_2^b \theta_3^c$ ($\theta_1^n = \theta_2^n = \theta_3^n = 1$). La loi de multiplication de deux éléments est donnée par $\theta_1^a \theta_2^b \theta_3^c \cdot \theta_1^d \theta_2^e \theta_3^f = \theta_1^{a+d} \theta_2^{b+e} \theta_3^{c+f} \cdot \rho^{a,b,c,d,e,f}$, $\rho^n = 1$, ρ à valeurs intégrales. On détermine la relation fonctionnelle pour la fonction ρ , telle que l'algèbre soit commutative, associative, ou que, dans l'algèbre, la norme du produit de deux nombres soit égale au produit des normes. Enfin, on fait ressortir qu'une algèbre associative A , contenant A_n comme sous-algèbre, est le produit direct $B \times A_n$, A , B et A_n ayant le même élément unité et tout élément de B étant commutatif avec tout élément de A_n .

FW

2

RESIDENT, Marcel N.
SURNAME, Given Names

Country: Rumania

Academic Degrees: -not given-

Affiliation: -not given-

Source: Bucharest, Comunicarile Academiei Republicii Populare Romine,
Vol XI, No 7, 1961, pp 779-783.

Data: "Characteristics of the System of Equations With Partial Derivatives
Expressing the Conditions of Monogeneity of Functions of Several
Hypercomplex Variables."

SURNAME, Given Names

Country: Rumania

Academic Degrees: -not given-

Affiliation: -not given-

Source: Bucharest, Comunicarile Academiei Republicii Populare Romine,
Vol XI, No 8, 1961, pp 909-914.

Data: " Formulas of the Means for the Analytical Solutions of Some
Equations With Partial Derivatives of the Parabolic Type."

ROSCULET, Marcel N.

Contributions to the study of equations with partial derivatives of the parabolic type. I. Study of a class of equations with partial derivatives of the second order. II. Iterate equations. Studii cerc mat 11 no.2:337-373, 469-504 '60. (EEAI 10:9)

(Equations) (Functions) (Differential equations)

ROSCULET, Marcel N.

Integral operators generalizing the equations with partial derivatives. Mean formulas. Studii cer mat 12 no.2:337-336 '61.

ROSCULET, Marcel N.

"Functions of a Hypercomplex Variable in the n -Dimensional Space." Revue de
Mathematiques et de Physique, Vol. 2, 1954

MAGASI, P.; ROSDY, E.

Diagnostic problems in diseases of the bladder neck with urine retention.
Acta chir. Acad. Sci. Hung. 3 no.2/3:195-206 '62.

1. Urologische Klinik (Direktor: Prof. Dr. A. Babics) der Medizinischen
Universitat Budapest.

(URINATION DISORDERS diag) (BLADDER dis)
(URETHRA dis)

ROSZY, Erno, dr.

Complication of pregnancy by bilateral infected hydronephrosis. Magyar. sz. 15 no.3:204-208 Je '62.

1. A Budapesti Orvostudományi Egyetem Urológiai Klinikájának (Igazgató: Babics Antal dr. egyetemi tanár akadémikus) közleménye.

(HYDRONEPHROSIS in pregn)
(PREGNANCY compl)

POLAND

WOZNIEWSKI, Zbigniew and ROSE, Andrzej [Affiliation not given]

"Causes of Death Listed in Sw. Krzyza Parish Registers in Warsaw for 1799."

Warsaw, Polski Tygodnik Lekarski, Vol 17, No 39, 24 Sep 62, pp 1521-1525.

Abstract: The authors review the history of cause of death registry regulations in Poland, and discuss some aspects of population and disease data, as revealed from the researches of Samuel Szyrkiewicz. They themselves have tabulated data of recently discovered records in good condition for 1799, as well as according to

SYKORA, K., prof., inz., dr.; ROSEL, J., inz.

In-built elements in the drums of steam generators with natural circulation. Strojirenstvi 12 no.7:509-516 JI '62.

1. Vysoka skola strojni a textilni, Liberec.

ROSENBAULI, O.S. (Moskva); RODIN, R.N. (Moskva)

Calculation of circuits for the stabilization of compound electric drives using a special triple-wound transformer [with summary in English]. Avtom. i telem. 21 no.11:1525-1535 N '60. (MIRA 13:11)
(Electric driving) (Electric transformers)

ROSENZWEIG, A.

No translation. Acta med.iugosl. 9 no.1:1-16 1955.

1. Department for Bacteriology and Experimental Pathology,
Netherlands Institute for Preventive Medicine, Leyden, Netherlands.

(BACTERIA,

pyrogens, in ther. of herpes; immun. indic. & results)

(HERPES, immunol.

bact.pyrogens, indic. & results)

(VIRUSES,

herpes HK & HG strains, exper. immun. with bact.pyrogens
in chicks & mice & rabbits)

SURNAME, Given Names

Country: Rumania

Academic Degrees:

Affiliation: -not given-

Source: Bucharest, Farmacia, Vol IX, No 8, Aug 1961, pp 487-493.

Data: "A New Sterility Test for Antibiotics Based on the Use of Ion Exchanging Resins. I. Control of the Sterility of Dicillin."

Authors:

ROSETTI, Matilda, -Pharmacist.-

BALIU, Stefania, -Pharmacist.-

ROSCISZEWSKI, J.

The propagation of shock waves through channels with changing cross sections. P 17

ARCHIWUM BUDOWY MASZYN. (Polska Akademia Nauk. Komitet Budowy Maszyn)
Warszawa, Vol 6, no. 1, 1959

POLAND

Monthly List of East European Accessions (EEAI) LC. Vol. 9, no. 7, July 1959

Rosciszewski, A.

Microhardness Measurements. P. Stank and A. Rosciszewski. (Prace Instytutu Mechaniki, 1958, 2, (7), 64-69). (in Polish). A review of the most frequently used hardness measuring methods is given. The principles of correct microhardness measurement are discussed. The Gimschig's microhardness tester is described and its superiority over Bergman's instrument is stressed. The results of microhardness measurements on ferrite, pearlite, martensite, cementite, and other structures of steel and cast iron are given.—V. G.

①

ROSCISZEWSKI, A.

Metallurgical Abst.
Vol. 21 May 1954
Physical and Mechanical
Testing, Inspection, and
Radiology

3
③
*Measurements of Micro-Hardness. F. Staub and A. Rosciszewski. *Proc. Ind. Mech.*, 1953, 3, (7), 54-69. (In Polish). A review of methods of measuring the micro-hardness of metals is followed by a critical comparison of the Girschig and Bergsman testers. Results of micro-hardness tests of steel phases obtained with a Girschig tester are reported and discussed.—S. K. L.

Fig. 1. P. 100. Reaction 12.5.1. A. Transition from state 1 to state 2.

ROSCIEZEMSKI, J.

The Department of Aeronautics of Warsaw Polytechnic waits for graduate students.
p. 3

SKRZYDLATA POLSKA. (liga Lotnicza) Warszawa, Poland. Vol. 11, no..26, June 1955.

1(2)

PHASE I BOOK EXPLOITATION

POL/2374

Ros'ciszewski, J.

Aerodynamika stosowana (Applied Aerodynamics) Warszawa Wyd-wo Min.
Obrony Narodowej, 1957. 415 p. Errata slip inserted. 2,000
copies printed.

Reviewer: Jerzy Burkowski, Professor; Ed.: Zenon Mendygrał,
Engineer; Tech. Ed.: Helena Malczewska.

PURPOSE: This book is intended for engineers interested in
problems of gas-flow machines used in aviation and industry.
It may also be used as a textbook for students at higher
level studying hydroaerodynamics and gas dynamics.

Applied Aerodynamics

POL/2374

to unsteady conditions, and gas flows with combustion. The book contains a considerable number of formulas, graphs and tables, which make engineering computations possible. There are 45 references: 18 Soviet, 14 English, 8 German, 2 French, and 2 Polish.

TABLE OF CONTENTS:

Preface

7

List of Important Symbols

9

PART I. FUNDAMENTALS OF AERODYNAMICS

ROSCISZEWSKI, J.

AMR

Aerodynamics of Flight; Hand Notes.

2

207. Roszczewski, J. Longitudinal dynamic stability of an aircraft flying at high (subsonic) speeds (in Polish), *Techn. Lekt.* 6, 2, 10-11, June 1951.

Paper is a highly abridged summary of the effect of high speed on longitudinal dynamic stability. Items considered include modification of wing and stabilizer aerodynamic characteristics, as well as aeroelastic effects including flutter.

M. J. Thompson, USA

ROSCISZEWSKI, J.

Index
Aeronautics
March 1954
Aircraft,
Rockets,
Flight
Simulators

196/103

629.135.45.035.5⁰

Application of Jet Propulsion
to Helicopters: Pt.1 and 2

Tech.Lotn.

8(2/3), 41-43, 67-72

March/April, May/June

1953

Poland

✓
J. Rościszewski

Analysis of jet engines from the point of view of their applicability to helicopters. Several systems of direct, indirect, and intermediate propulsion are described and compared as to performance, fuel consumption, and production costs. (Bibl.13)

LD

ROSCISZEWSKI, J.

Aeronautics in People 's Poland. p. 458. (SKRZYDLATA POLSKA, Vol. 10, No. 29, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

ROSCIESZEWSKI, J.

Aeronautical studies at the Warsaw Polytechnic. 3. Role of graduates in the future. p. 255. (SKRZYDLATA POLSKA, Vol. 10, No. 16, Apr. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

ROSCISZEWSKI, J

3

Rościszewski J. Jet Propulsion Applied to Helicopters.

„Zastosowanie napędów odrzutowych do śmigłowców”. Technika Lotnicza, No. 2, 1953, pp. 41-43, 7 figs.

The author reviews the problem of applying jet propulsion to helicopters. Individual engine types are discussed in relation to their advantages and disadvantages in helicopter propulsion; the pulse-jet engine, as one of the most interesting solutions receives particular attention. The problem of performance of helicopters with different propulsion systems. A simplified analysis of the advantages of six selected propulsion systems as regards performance, fuel consumption and construction costs.

Law: P.E. Jan

Rosciszewski, J.

2

Glossary of Aeronautical Terms; Terms
Used in the Dynamics of Gases. J. Ro-
sciszewski. (Tek. Lotnissa [Poland]; No.
-6, 1953.) Gl. Brit. MOS: TIB/T4406,
Sept., 1954. 10 pp. Translation.

P. 5
JAN

ROSCISZEWSKI, J.

"Soviet Books Help Students and Workers in Aeronautics." P. 646. (SKRZYDLATA
POLSKA, Vol. 10, No. 41, Oct. 1954, Warszawa, Poland)

SO; Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

ROSCISZEWSKI, J.

40/112(T 4406)

533.6(083.71)

Terms used in the Dynamics
of Gases

Tekn. Lotn.

8(5), 145-147

1953

Poland

J. Rosciszewski

Definitions of fundamental terms used in the dynamics of gases
are suggested and translated into French, German and Russian.

ROSCISZEWSKI, J.

Distr: LEL

Rosciszewski, Jan. Methods for the analysis of the interaction between a shock wave and a simple rarefaction wave. Rozprawy Inz. 3 (1957), 241-268. (Polish. Russian and English summaries)

After giving an analysis of the fundamentals of the wave interaction problem in a one-dimensional non-steady flow, the author discusses the methods of solving the boundary value problem by using difference equations and the following methods: (i) transformation into velocity-sound velocity plane; (ii) Friedrichs' method with some modifications; (iii) Geiringer's Lagrangian representation. J. v. Neumann's model is also mentioned.

00

JOURNAL ARTICLE TRANSLATION

Transl. No.
& Country

T 4406

Translation issued by TPA3/TIB

Terms Used in the Dynamics
of Gases

Authors

J. Rosciszewski

ROSCISZEWSKI, J.

"Application of Jet Propulsion to Helicopters." (To be Contd.) P. 41.
(TECHNIKA LOTNICZA, Vol. 8, No. 2, Mar./Apr. 1953, Warszawa, Poland)

SO; Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

ROSCISZEWSKI, J.

"Application of Jet Propulsion to Helicopters. Pt. 2." (Conclusion)
P. 67. (TECHNIKA LOTNICZA, Vol. 8, No. 3, May/June 1953, Warszawa,
Poland)

SO; Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

ROSCISZEWSKI, J.

"Aeronautic Vocabulary; Some Terms Concerning the Dynamics of Gas." P. 145.
(TECHNIKA LOTNICZA, Vol. 8, No. 5, Sept./Oct. 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

ROSCISZEWSKI, J.

"Autorotation." p. 88
(Skraydla I Motor, Vol 8 No 6 Feb 53 Warszawa)

ROSCISZEWSKI, J.

"Autorotation. 2." p. 107 (Skrzydla I Motor, Vol. 8, No. 7, Feb. 1953, Warszawa)

1126

533.6.013.1 : 629.135

Roćiszewski, J., Dynamic Longitudinal Stability at High (Subsonic) Speeds.

„Podłużna stateczność dynamiczna w locie z dużą prędkością (poddźwiękową)”. Technika Lotnicza, No. 1, 1951, pp. 13—23, No. 2, 1951, pp. 40—44, 11 figs.

General conceptions. Symbols. Equations of movement. The influence of compressibility on stability: 1) variation of lift coefficient, 2) lift slope, 3) drag coefficient, 4) moment coefficient. 5) elevator aerodynamic coefficients, 6) longitudinal stability derivatives, 7) coefficients of the stability equations, 8) simplified longitudinal stability equations. The influence of the deformations of different parts of the airplane on dynamic stability: 1) effect of wing deformation, 2) effect of tail surface deformation, skin deflection, tail surface twist, 3) aerodynamic coefficients of the tail unit. Lack of a sufficient

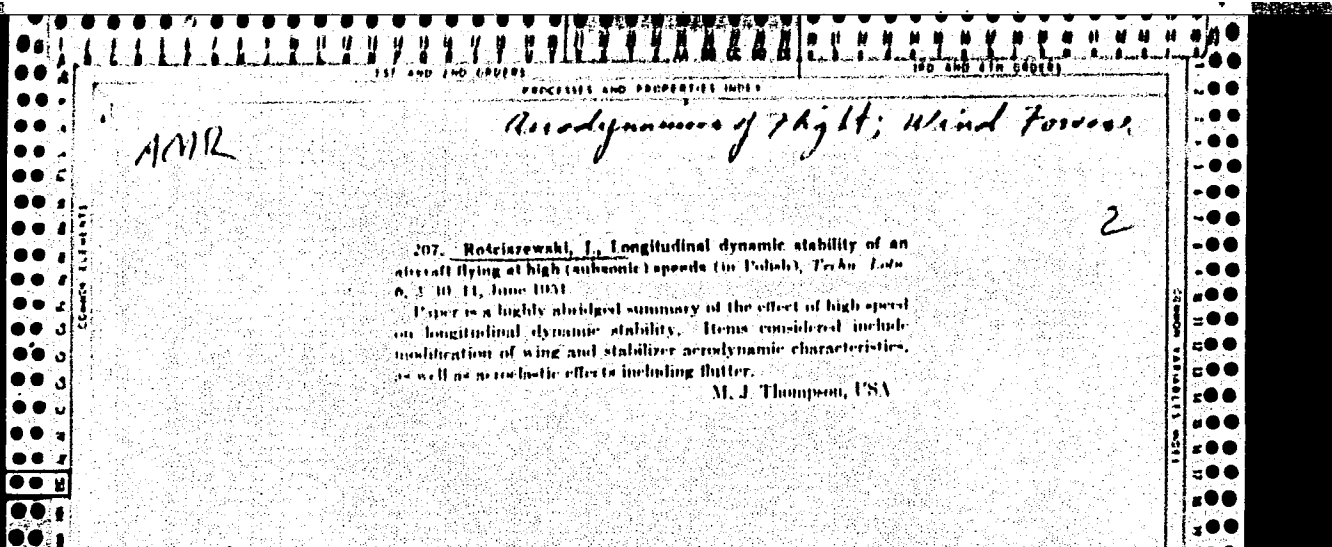
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Paper reviews basic equations for study of longitudinal dynamic stability of an airplane. Particular attention is given to the effects of compressibility at high subsonic speeds. The characteristic irregularities arising at Mach numbers above 0.7 are illustrated by examples of several types of airplanes.

M. J. Thompson, USA



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SO:MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (3E&L), LC, Vol. 4, No. 9,
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Warszawa, Poland. Vol.9, no.3, Mar. 1959

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SOURCE: East European Acession List (EEAL) Library of Congress
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

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Distr: 4E3d/4E3b/4E2c(j)

288 (NB)

Rosciszewski P.

3608

661.718.5 : 547.245-113.07

Rosciszewski P., Sobczewski Z. Direct Synthesis of Methyl Chlorosilanes.
 "Synteza bezpośrednia metylochlorosilanów". Przemysł Chemiczny.
 No. 11, 1954, pp. 565-570, 2 figs., 7 tabs.

On the basis of accessible indigenous raw materials (ferrosilicon, CH_3Cl), a method was worked out of direct synthesis of methyl chlorosilanes. It was found that: — 1) the quality of the silicon influences the course of synthesis and the results; 2) the best catalyst is about 10 per cent. of freshly reduced copper; 3) zinc influences the composition of the compounds increasing the M.T.S. content and reducing that of D.D.S. (M.T.S. = methyltrichlorosilane, D.D.S. = dimethyldichlorosilane); 4 the flow of methyl chloride obtained, amounts, according to present results, to 10 g. per hour for 100 g. Si; 5) with a sufficiently active contact mixture the synthesis can be effected at 280 to 300°C; 6) it is advisable to use hydrogen during the activation, since it lowers the temperature of the reaction, reduces the consumption of methylchloride, shortens the time of the experiment and shifts the compound towards the difunctional

S/081/63/000/002/055/088
B171/B102

AUTHORS:

Rościszewski, Paweł, Zakrzewski, Lech, Zieliński, Witold

TITLE:

Direct synthesis of alkyl chlorosilanes

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1963, 404-405,
abstract 2N43 (Polish patent 44883, Sept. 21, 1961)

TEXT: Alkyl chlorosilanes are prepared from Si and RCl (R=alkyl) on
a Cu catalyst (CT) at 250-400°C. In certain methods of synthesis,
most valuable R_2SiCl_2 other compounds such as $RSiCl_3$, R_3SiCl ,
and traces of some aliphatic hydrocarbons
The Cu-CT may activate
tions can be

Direct synthesis of alkyl ...

S/081/63/000/002/055/088
B171/B102

The pyrolysis of RCl occurs when the rate of its supply in the reaction zone exceeds a certain optimum value depending on the conditions of operation. According to the present patent, the rate of supply of RCl is modified when the activity of the contact mass and other parameters, such as temperature, are changed. The reaction is started by supplying RCl at a low rate, which is gradually increased as the rate of reaction increases and is then decreased toward the end of the process. It is possible to obtain a practically constant content of R_2SiCl_2 (40-70%) in the reaction products by regulating the rate of supply of RCl in order to ensure that the H_2 - content in uncondensable waste gases (not counting the unreacted RCl) ...

Direct synthesis of alkyl ...

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B171/B102

1 kg Cu during 45-70 hrs, of 25 l/hr per 1 kg Cu during 70-180 hrs, and of 16 l/hr per 1 kg Cu during 180-220 hrs. 250 g of a mixture, containing 85% of technically pure Si and 15% of Cu-powder are agglomerated at 1100°C in an atmosphere of H_2 , ground in a mortar, sieved through mesh openings of 0.09 mm, and poured into a horizontal glass reactor (RT), 100 cm long and having a diameter of 36 mm. The RT is heated to 270°C and the contact mass is dried during 5 hrs in an atmosphere of N_2 . CH_3Cl is passed through the RT during 16 hrs at the rate of 35 ml/min, then during 78 hrs at the rate of 65 ml/min, and the process is discontinued. The products are water-cooled and the unreacted CH_3Cl is separated in a ... The uncondensable

Direct synthesis of alkyl ...

S/081/63/000/002/055/088
B171/B102

$(\text{CH}_3)_3\text{SiCl}$ and 10% of CH_3SiCl_3 . The authors give an example of a similar reaction carried out in a steel RT. [Abstracter's note: Complete translation.]



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ROSCISZEWSKI, P. Over the Matragona and Hyrlata. p. 15. The petrified forest
at Kwaczala. p. 18.

Vol. 28, no. 8, Aug. 1956

TURYSTA

Poland

S/661/61/000/006/008/081
D205/D302

AUTHOR: Rościszewski, P. S.

TITLE: Investigating direct synthesis of methyl chlorosilanes

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh
soyedeniy; trudy konferentsii, no. 6, Doklady, diskussii,
resheniye. II Vses. konfer. po khimii i prakt. prim.
kremneorg. soyed., Len., 1958. Leningrad. Izd-vo AN SSSR.
1961, 42-60

TEXT: The work on the synthesis of monomers needed for producing
has continued at the Institute of Synthe-

Investigating direct synthesis ...

S/661/61/000/006/008/081
D205/D302

was passed in. 200 runs were performed for investigation of various kinds of technical Si and Cu, and of various activators (Zn, Al, Co, Pb, Hg and also gases H_2 , HCl and Cl_2). No simple criterion for the choice of Si in the case of catalysts (1) was found. The results were very erratic and although these catalysts are the easiest to prepare they are the worst in use. The size distribution of Si has a bearing on the direction of the reaction. An increase of the degree of grinding by 30% increases the yield of the valuable bifunctional monomer from 20 to 35%. In the catalysts (2) no inter-metallic compounds (η -phase) were revealed by X-rays. This phase, (m) was revealed in (7).

Investigating direct synthesis...

S/661/61/000/006/003/081
D205/D302

stage of the synthesis has confirmed the chemisorptive mechanism. The rise of temperature has only a slight beneficial influence on the reaction velocity in the case of sintered catalysts, but the quality of the product mixture is lowered. The influence of temperature is much more marked in case (1). There are 10 figures and 9 tables.

ASSOCIATION: Institut iskusstvennykh smol. Varszawa (Institute of Synthetic Resins, Warsaw)

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(THROMBOSIS radiogr.)
(PORTAL VEINS dis.)
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5,
May 1955, Uncl.

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Vol. 32 No. 1
Jan. 1954
Crude Rubber

67. Cyclised rubber. ^② P. ROSCISZEWSKI. *Prace Inst. Chem. Przemys.* 1951, 37-48 (publ. 1952); *Chem. Abs.*, 1953, 47, 0043. Preparation of cyclised rubber and its application to the production of special adhesives for bonding of rubber to steel and aluminium surfaces has been studied. The mechanical strength of such bonds was found to be very high. Thirty-one references are given. 38321

9-7-54

R.A.

Vulcanised Natural Rubber

1440. Methods of bonding rubber to metals. P. Róbciszewski. *Przemysł Chemiczny*, 1951, (30)VII, 727-30. The principal bonding methods are reviewed. Mechanical bonding is of relatively little use. Bonding to copper or its alloys such as brass or bronze gives a strength of 70-80 kg./sq. cm. A layer of chonite between rubber and metal gives a bonding strength of 30-40 kg./sq. cm. The bond resists chemical action, but has certain mechanical drawbacks. Another method is the protein-rubber bond formed by 50-70 parts of blood albumen compounded with 100 parts of rubber; the bond, of 28-45 kg./sq. cm. strength, is thermoplastic and is liable to weaken under heat. Bonding by means of rubber hydrochloride, chlorinated rubber, and Desmodur R is discussed. Finally, the mechanism of the bond is considered. (541)

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SOURCE: East European Accessions List (EEAL) Library of Congress, Vol.
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